Specifications

Video Input

Signal Type	1 Composite video
	1 S-Video
	2 Component Video(Y,Pb,Pr)
	1920x1080I @60Hz
	1280 x 720P @60Hz
	720x480P @60Hz
	720x480I @60Hz
	1 RGBHV
	1920x1080I @60Hz
	1280 x 720P @60Hz
	720x480P @60Hz
	VESA Standard
	up to 1280x1024P @60Hz
Connector	1xRCA(Composite Video)
	1female 4-pin Mini_DIN(S-Video)
	3xRCA x2ea(Component Video)
	1 female 15-pin D-Sub(RGBHV)
Min/Max Levels	Analog 0.0V~1.0Vpp with no offset
Impedance	75 ohms
Max DC offset	1.5V

RF Input

Input Frequency	54 MHz ~ 860MHz(VSB)
Impedance	75 ohms
Connector	IEC 169-2, female, F type
Symbol Rate	10.76 MS/s

Transport Stream Decoding

Stream format	MPEG-2 Transport Stream
Data Rate	Up to 40 Mbps
PID	Controls up to 32 PID
MPEG Level	HDTV : MPEG-2 MP@HL
	SDTV : MPEG-2 MP@ML
Decoding type	All of ATSC DTV Standards

Video Output

Signal Type	1 Scaled RGBHV
	1 Component Video(Y/Pb/Pr)
	1 DVI-D(TMDS)
Connector	1 female 15-pin D-SUB(RGBHV)
	5 female BNC(Component video)
	1 DVI-D Female
Min/Max Levels	0.0V to 0.7 Vp-p
Impedance	75 ohms
Output Resolution	1920 x 1080 P @ 60Hz
	1920 x 1080 i @ 60Hz
	1280 x 1024 P @ 60Hz
	1280 x 768 P @ 60Hz
	1280 x 720 P @ 60Hz
	800 x 600 P @ 60Hz
	720 x 480 P @ 60Hz

Sync

Input Type	RGBHV
	Tri-Level Sync for 1080i/P 720P
	Bi-Level Sync for others
Input Polarity	Positive or Negative
Input Impedance	75 ohms
Max.Input Voltage	5Vp-p
Output Type	RGBHV
	Tri-Level Sync for 1080i/P 720P
	Bi-Level Sync for others
Output Polarity	Positive Sync
Output Impedance	75 ohms

Audio

Signal Type	4 (L-R) for analog input.
	1 (L-R) for analog output.
	1 Coaxial Digital output (SPDIF)
	1 Optical Digital output (SPDIF)
Connector	4ea 2xRCA(L-R) for analog input.
	1ea 2xRCA(L-R) for analog output.
	1ea 1xRCA Coaxial Digital output.
	1ea Optical Digital output
Sampling Rate	32kHz, 44.1kHz, 48kHz
Freq. Response	20Hz ~20kHz, <+/-2 dB 60Hz ~ 18kHz, <+/-0.5 dB

Control

Serial Port	RS-232, 9-pin female D-Sub
Baud Rate	57600 bps
Protocol	8-bit, 1 stop bit, no parity.
Firmware Upgrade	Available in Windows by soft tool

General

Power	100V~250V AC, 50/60Hz, internal auto-switchable
Temperature	Operating : 0℃ ~ +45℃
	Storage : -10℃ ~ +50℃
Humidity	Operating : 10% ~ 85% RH Non-condensed
	Storage : 5% ~ 90% RH Non-condensed
Weight	3.6 kg
Size	380(W) x 275(D) x 65(H)
Listings	UL pending
Compliances	FCC pending
Warranty	3 years parts and labor

East Bldg., 6th Floor, IT Venture Tower, 78 Garakbon-Dong,
Songpa-Gu, Seoul, Korea 138-803
TEL : +82-2-2142-4000 Fax : +82-2-2142-4099
http://www.DTVsolution.com E-mail : sales@milinc.co.kr

1080P Display Digital Video Station

Five Video Inputs and HDTV RF Input
Both Analog(RGB,YPbPr) and Digital(DVI) Video Output
IEEE 1394 Digital Interface
Motion Adaptive 3-D Deinterlacing
Film Source Recovery
Flexible Scaling Capability
Artifact-free Frame Lock
Various Display Functions
IR Remote Control

Macro Image Technology

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Description

The MVS-500 is the unique advanced digital video station which incorporates the up-to-date video processing technology including motion adaptive 3-D deinterlacing, scaling and graphical user interface functions.

The MVS-500 inputs various kinds of video signals including composite video, S-Video, component video and PC VGA signals. It also receives a terrestrial HDTV broadcasting signal of the ATSC digital television standard with MPEG-2 video decoding and Dolby Digital audio decoding capabilities.

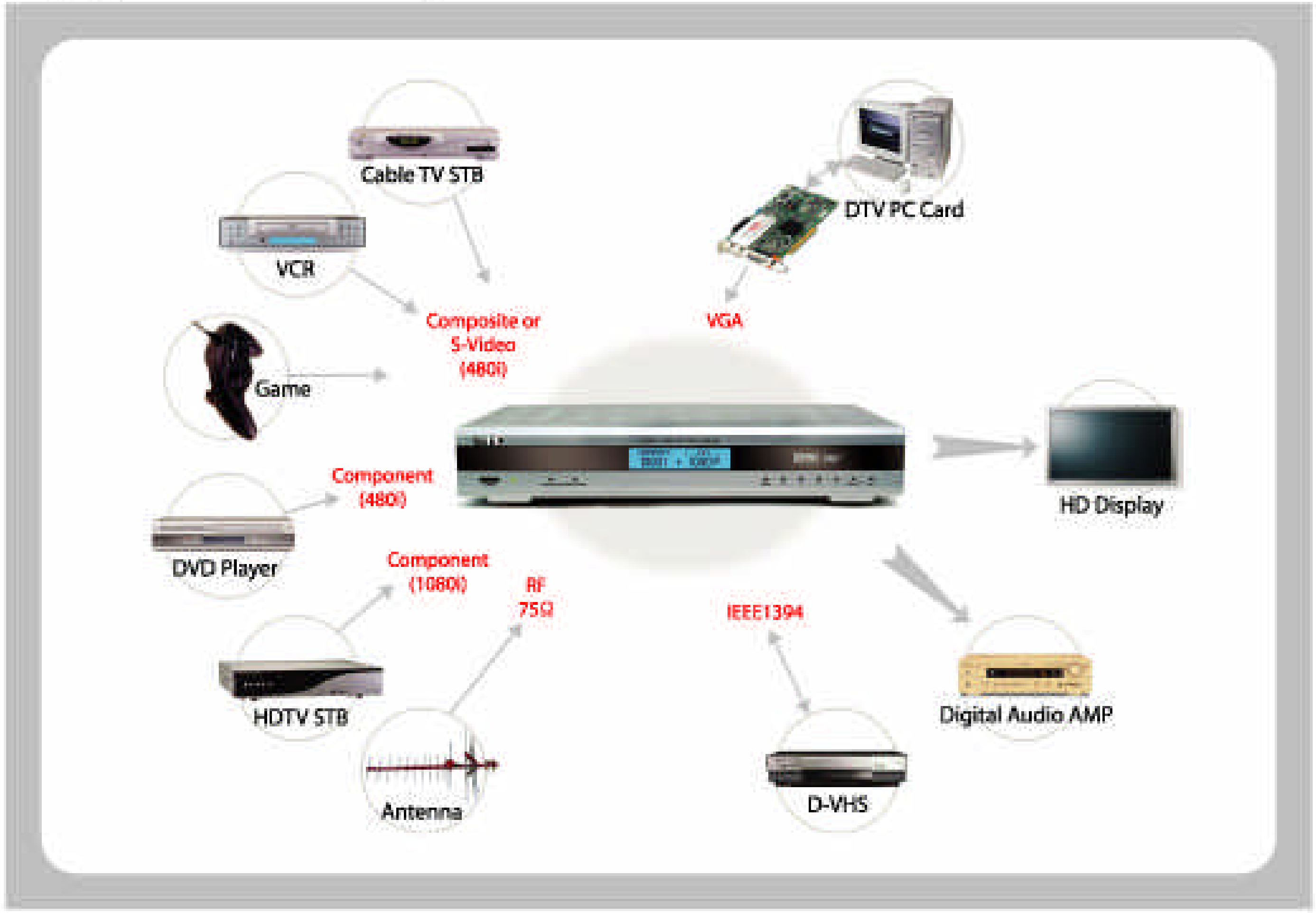
The MVS-500 provides video format conversion, scan conversion and diverse display functions including zoom, PIP, POP and so on. When RF signal is selected as input source, the MVS-500 extracts digital video and audio data, decodes and converts them into signals for HDTV-ready display devices and audio amplifiers.

The MVS-500 provides both progressive and interlaced video output up to 1080p through analog RGB, YPbPr and digital DVI-D interface. The MVS-500 also provides IEEE1394 digital interface for digital storage media.

The MVS-500 adopts up-to-date motion adaptive 3-D deinterlacing algorithm, which results in unparalleled picture quality when scan conversion from interlaced video into progressive video is performed. The MVS-500 also detects automatically 3:2 pulldown scheme of input video source which originates from film, and performs deinterlacing with proper inverse 3:2 pull-down algorithm, which results in excellent picture quality.

With its various video inputs, video output interfaces and high quality video processing capabilities, the MVS-500 is suitable to the applications for significant image performance such as home theaters, conference rooms, development tools and so on.

Application Diagram



Features

Video Input
MVS-500 receives most of all the video formats with interlaced or progressive scan. It supports 720x480i, 720x480P, 1280x720P, 1920x1080i through component input port and VESA standard format up to 1280x1024P. Most of video types such as composite video, S-Video, component video and RGBHV are supported as video input.

Audio Input
Four sets of analog two channel audio are provided. The first one is for composite or S-Video input. The second and third one is for two sets of component video input. The forth one is for RGB video input.

Video Output up to 1080P
MVS-500 provides various formats of video output with interlaced or progressive scan. Maximum output resolution is 1920x1080P, which will provide utmost picture display quality. Analog video output of component video and RGBHV are provided. Digital video output of DVI is provided.

Audio Output
Both analog and digital audio outputs are provided. Analog audio output is two channel stereo. Digital audio output consists of S/PDIF with 5.1 channel Dolby Digital and 2 channel PCM. For digital audio output, either optical or coaxial output may be selected.

Terrestrial RF Input
MVS-500 receives 8/16VSB terrestrial broadcasting RF signal and is fully compliant with ATSC DTV Standard.

HDTV Decoding
MVS-500 decodes all of ATSC DTV Standards with MPEG-2 MP@HL (HDTV) and MPEG-2 MP@ML (SDTV) video decoding and 5.1-channel Dolby Digital audio decoding capability.

IEEE 1394 Digital Interface
MVS-500 provides IEEE 1394 interface to store and playback the Transport Stream data using IEEE 1394 based digital storage devices such as D-VHS.

EPG
With the terrestrial RF input, MVS-500 provides EPG feature to give easy-to-use way of watching DTV.

Scheduled Recording
MVS-500 provides scheduled recording feature for the received terrestrial broadcasting programs through the IEEE 1394 interface.

Motion Adaptive 3-D Deinterlacing
For scan conversion from interlaced video into progressive video, MVS-500 adopts up-to-date motion adaptive 3-D deinterlacing algorithm, which will give you an experience of unparalleled picture quality.

Film Source Recovery
MVS-500 automatically detects 3:2 pull-down scheme of input video source which originates from film, where 3:2 pull-down method is applied.

Frame Lock
When refresh rates of input video and output video are different, there may occur a glitch or freeze of display. With the frame lock function of MVS-500 will remove that kind of artifacts.

Scaling
Various kinds of scaled video output are provided with MVS-500¡¯s flexible scaling capability.

Aspect Ratio Conversion
With its independent horizontal and vertical scaling capability, MVS-500 provides flexible aspect ratio conversion function.

Display Functions
MVS-500 provides various display functions such as PIP, Zoom, Double window and so on.

Display Control Functions
Display control functions of brightness, contrast, hew and gamma control are provided for customer specific parameter settings.

IR Remote Control
IR remote control handset is provided for controlling all the functions of MVS-500.

Software Upgrade
Software upgrade can be performed through an RS-232C port on rear panel, which will greatly eliminates labor of taking a system apart and putting it together.

Display Devices Compatibility
MVS-500 can be connected to most of display devices such as HDTV, LCD, PDP, DLP and PC monitors.

Flexible Power Supply
Power supply supports 100V~250V AC, 50 and 60Hz, which is auto selectable according to supply voltage